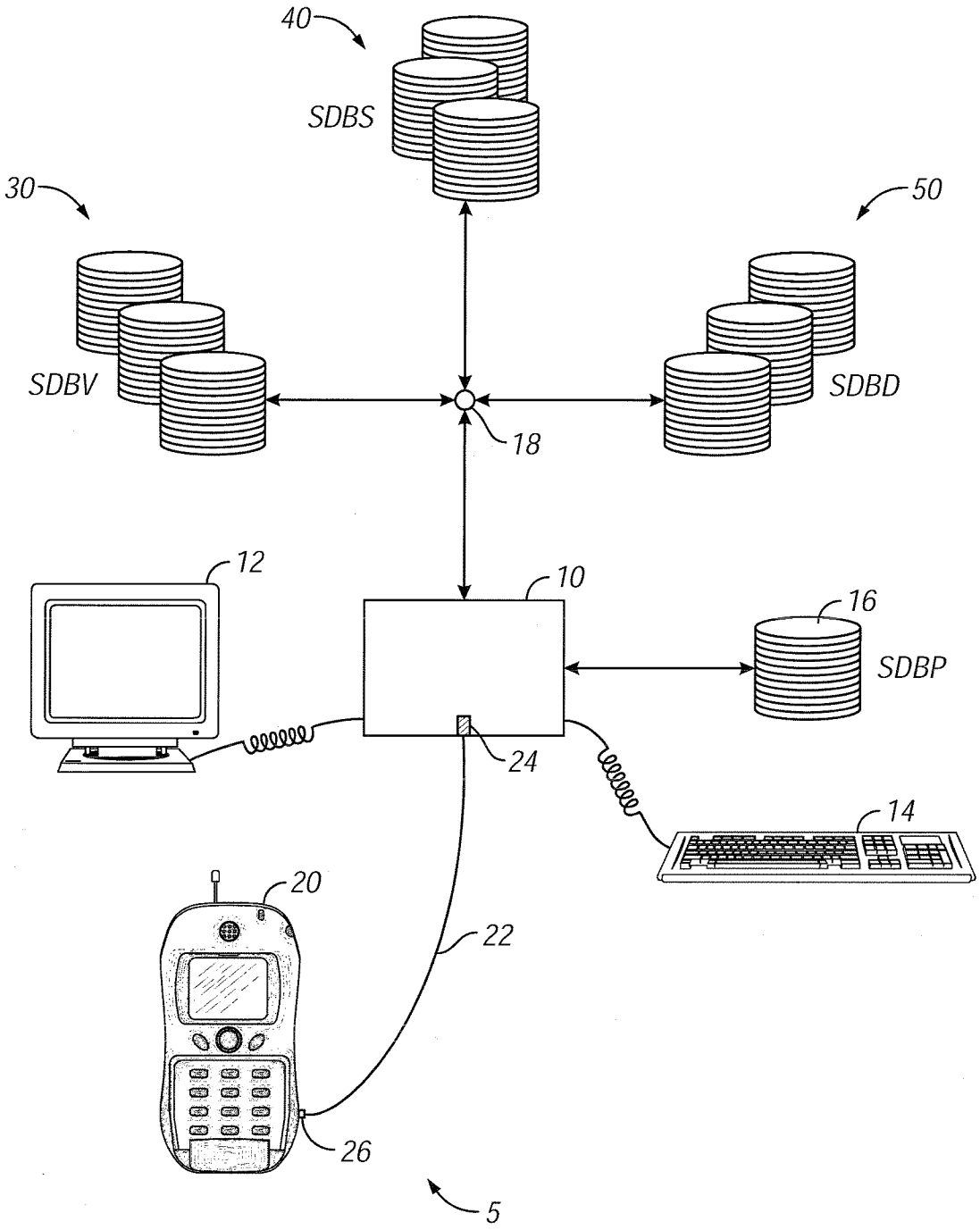


FIG. 1

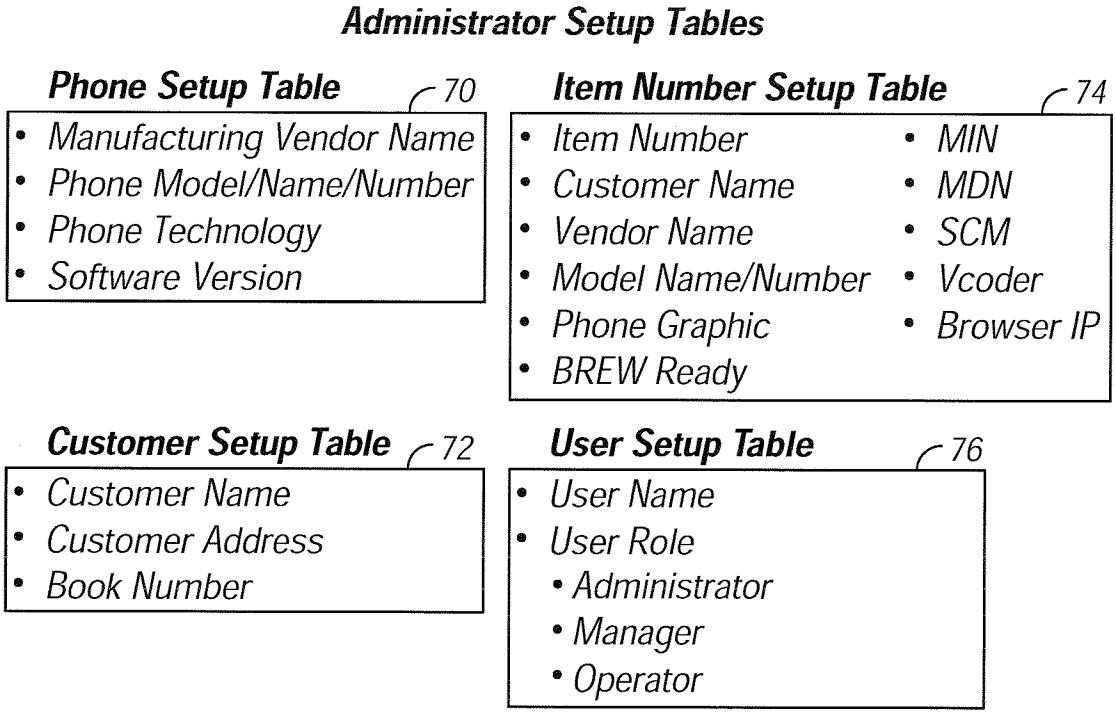

Administrator Setup Tables
Phone Setup Table
70
• Manufacturing Vendor Name
• Phone Model/Name/Number
• Phone Technology
• Software Version
Item Number Setup Table
74
• Item Number
• Customer Name
• Vendor Name
• Model Name/Number
• Phone Graphic
• BREW Ready
• MIN
• MDN
• SCM
• Vcoder
• Browser IP
Customer Setup Table
72
• Customer Name
• Customer Address
• Book Number
User Setup Table
76
• User Name
• User Role
• Administrator
• Manager
• Operator

FIG. 2

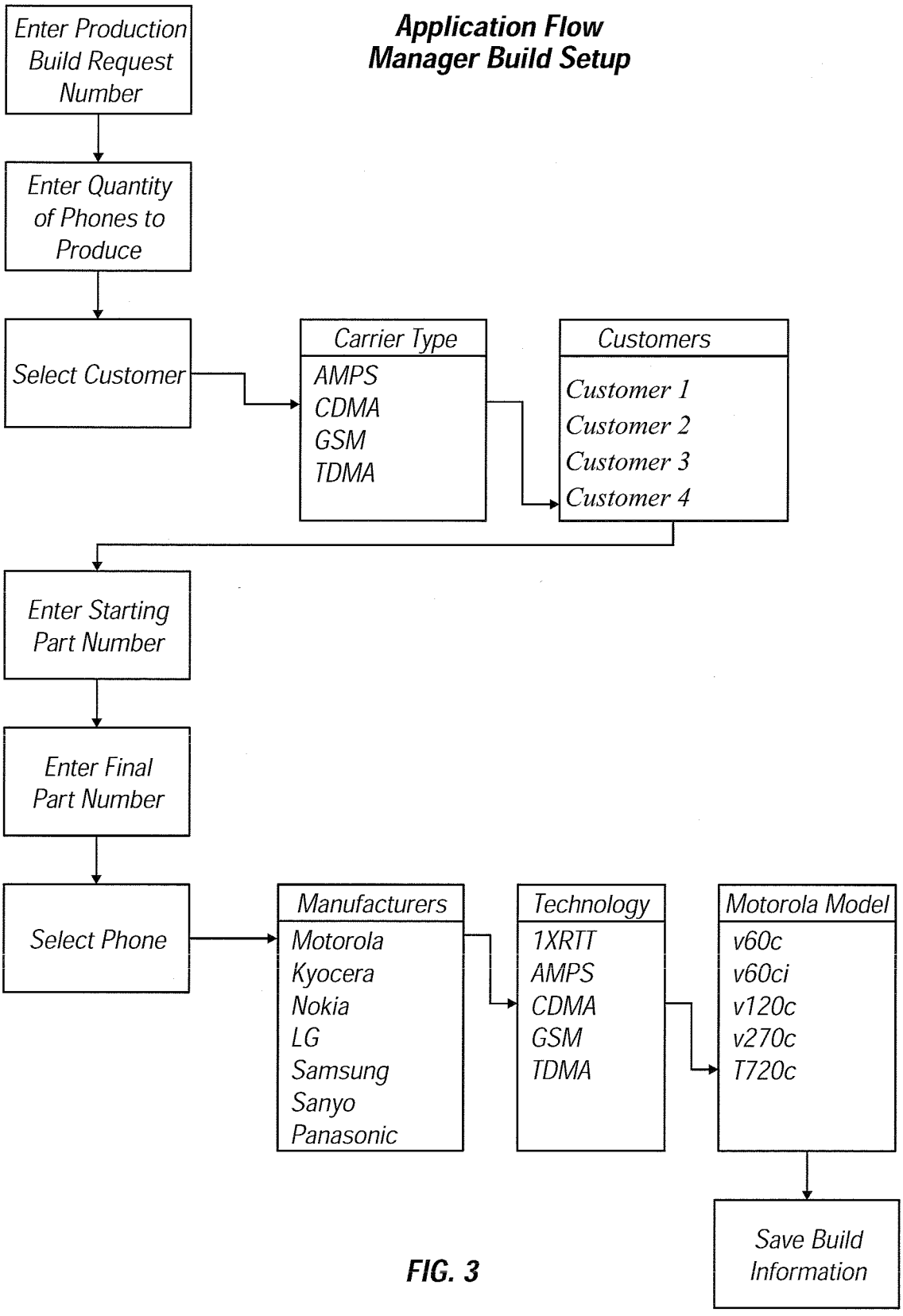

Application Flow
Manager Build Setup
Enter Production Build Request Number
Enter Quantity of Phones to Produce
Select Customer
Carrier Type
AMPS
CDMA
GSM
TDMA
Customers
Customer 1
Customer 2
Customer 3
Customer 4
Enter Starting Part Number
Enter Final Part Number
Select Phone
Manufacturers
Motorola
Kyocera
Nokia
LG
Samsung
Sanyo
Panasonic
Technology
1XRTT
AMPS
CDMA
GSM
TDMA
Motorola Model
v60c
v60ci
v120c
v270c
T720c
Save Build Information

FIG. 3

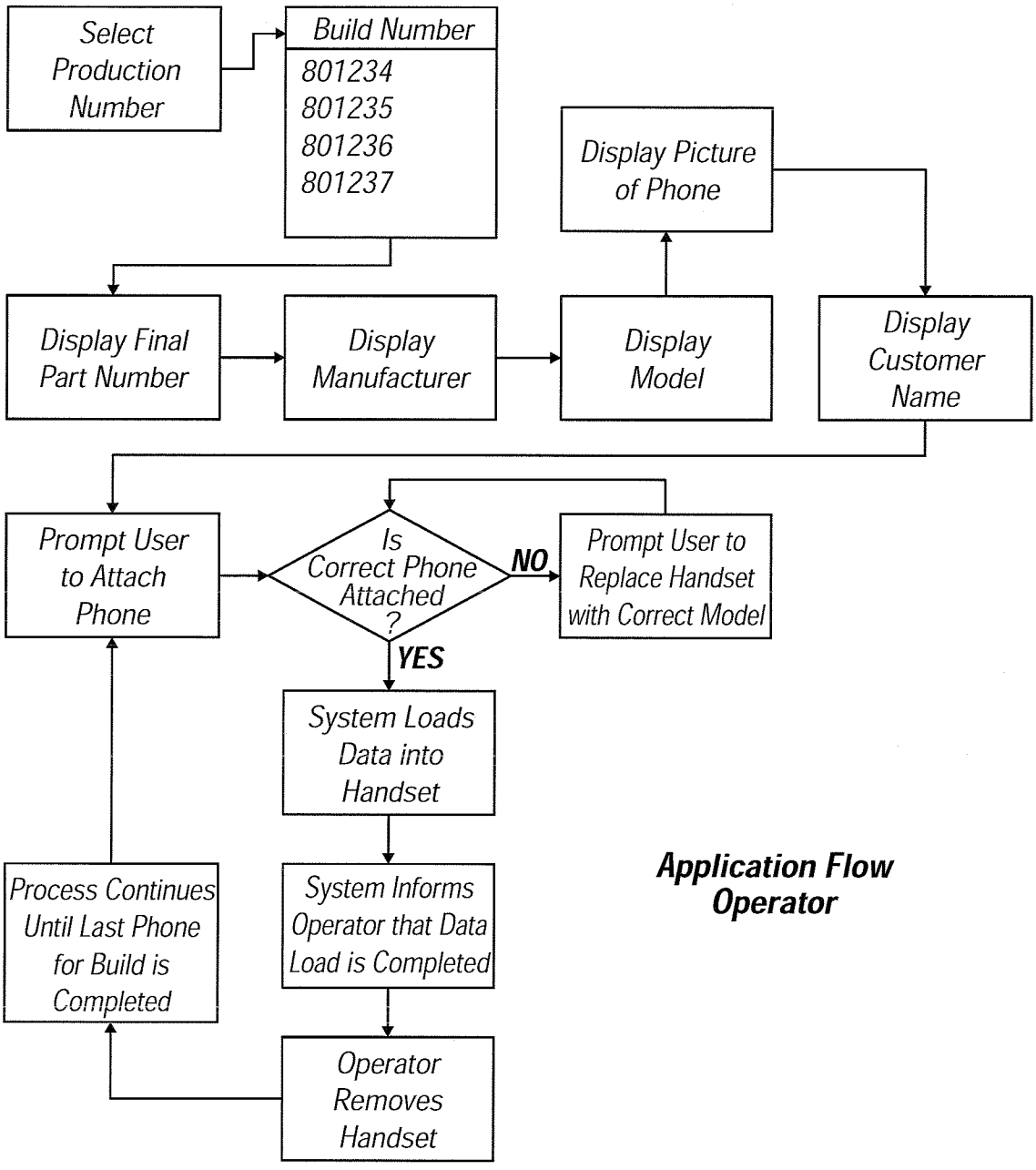

Select Production Number
Build Number
801234
801235
801236
801237
Display Picture of Phone
Display Final Part Number
Display Manufacturer
Display Model
Display Customer Name
Prompt User to Attach Phone
Is Correct Phone Attached ?
NO
Prompt User to Replace Handset with Correct Model
YES
System Loads Data into Handset
Process Continues Until Last Phone for Build is Completed
System Informs Operator that Data Load is Completed
Operator Removes Handset
Application Flow Operator

FIG. 4

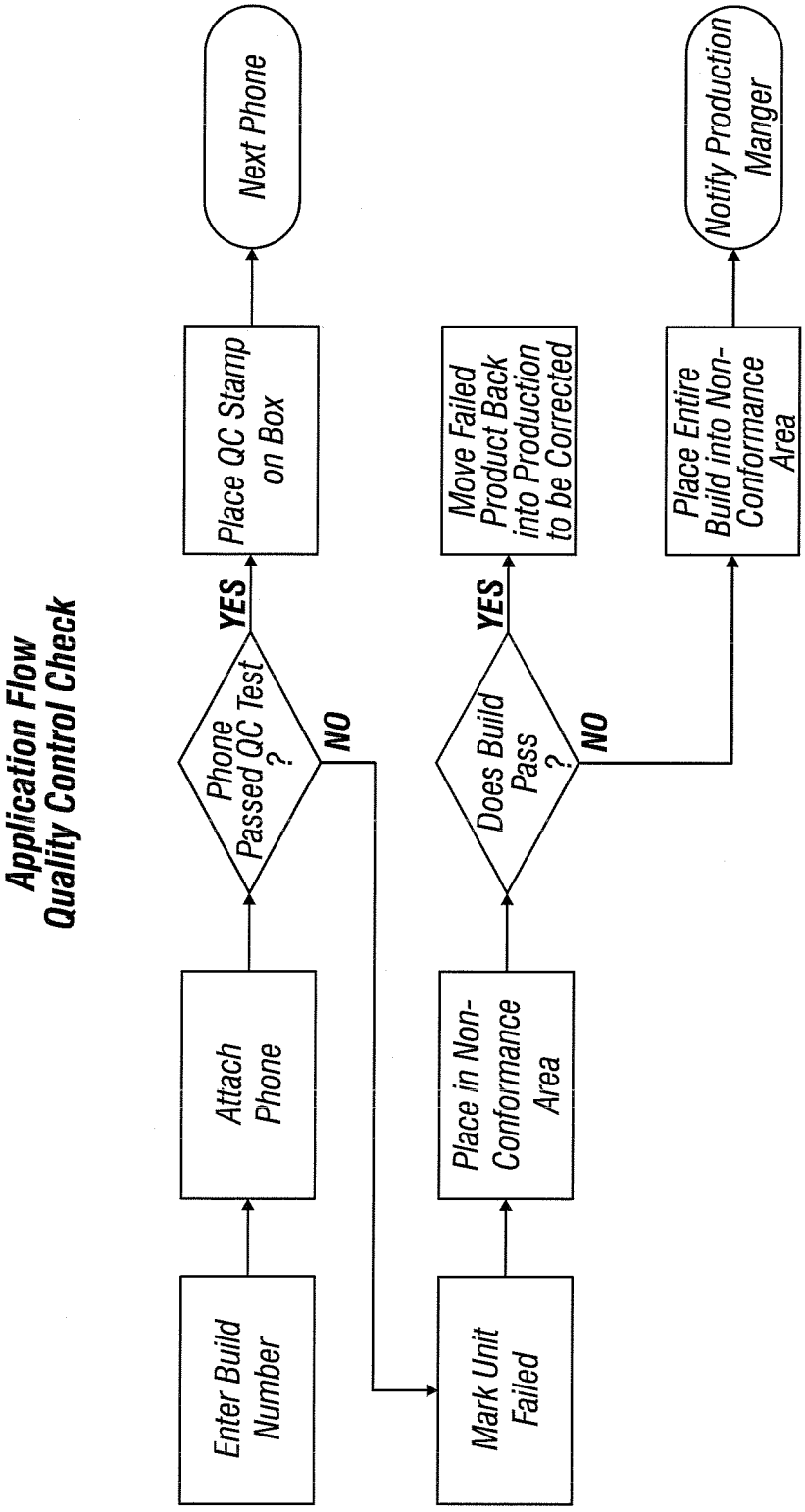
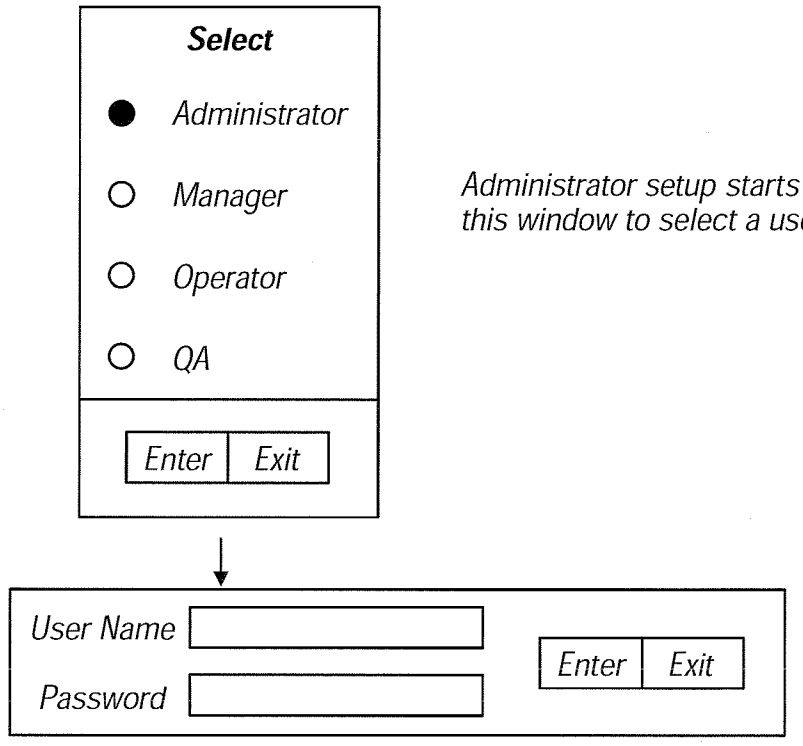

Application Flow
Quality Control Check
Enter Build Number
Attach Phone
Phone Passed QC Test ?
YES
NO
Place QC Stamp on Box
Next Phone
Mark Unit Failed
Place in Non-Conformance Area
Does Build Pass ?
YES
NO
Move Failed Product Back into Production to be Corrected
Place Entire Build into Non-Conformance Area
Notify Production Manger

FIG. 5

Start Application Software
Function Select and Access Authorization

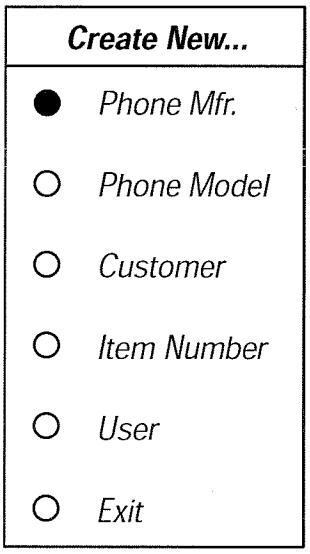


Administrator setup starts with this window to select a user function...

... And gain acces by submitting user ID and password...

FIG. 6

Administrative Setup
Main Screen



Administrative options include input of phone vendor, customer, item number, and user identification information, as discussed with respect to flow sheets below.

When finished, Administrator closes activities by selecting "Exit".

FIG. 7

Administrator Setup Selection Screen
Phone Manufacturer

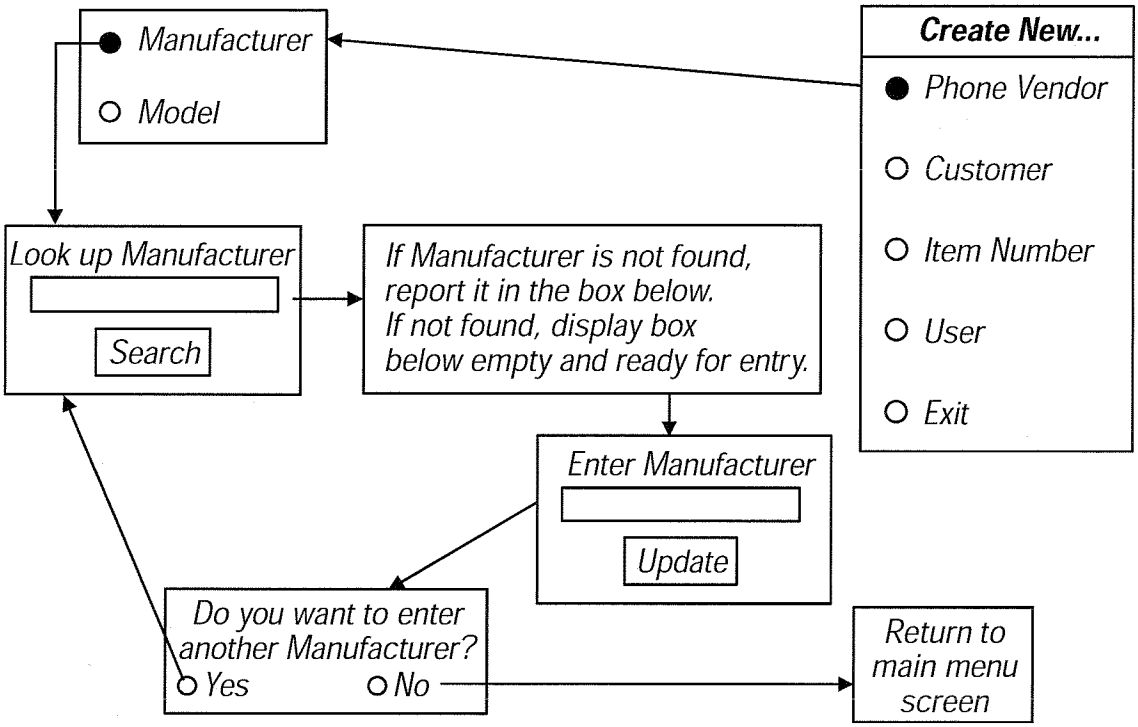


FIG. 8

Administrator Setup Selection Screen
Phone Model

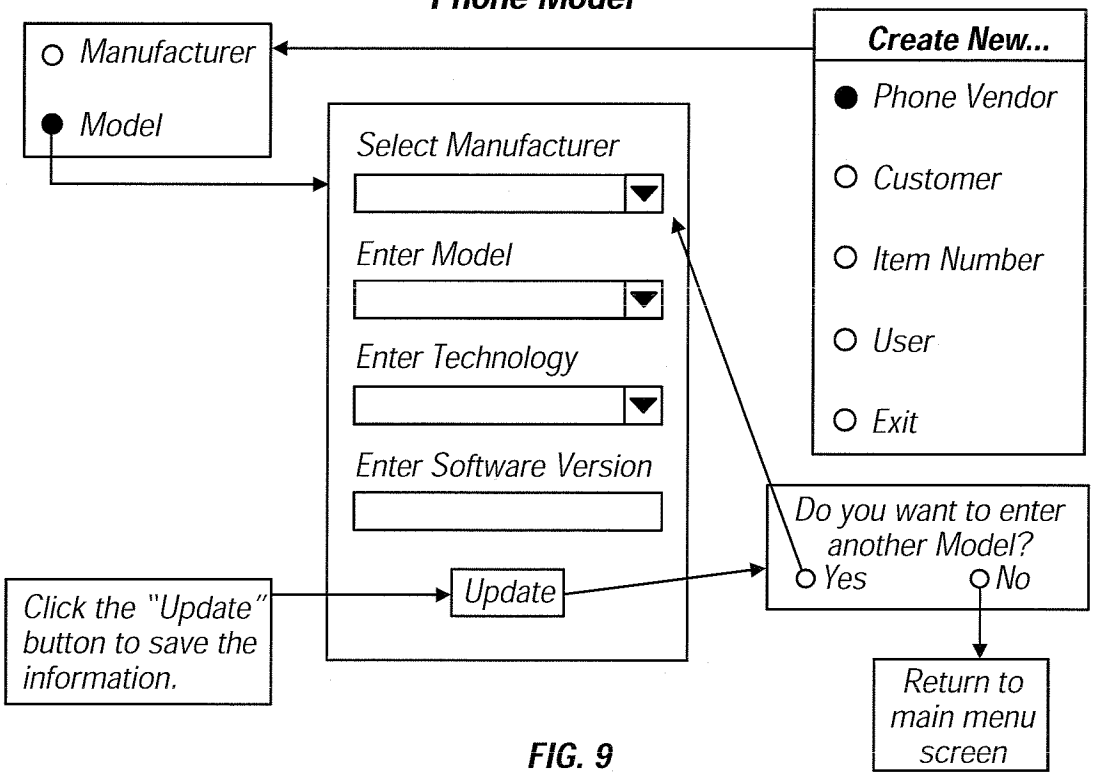


FIG. 9

Administrator Setup Selection Screen
Customer

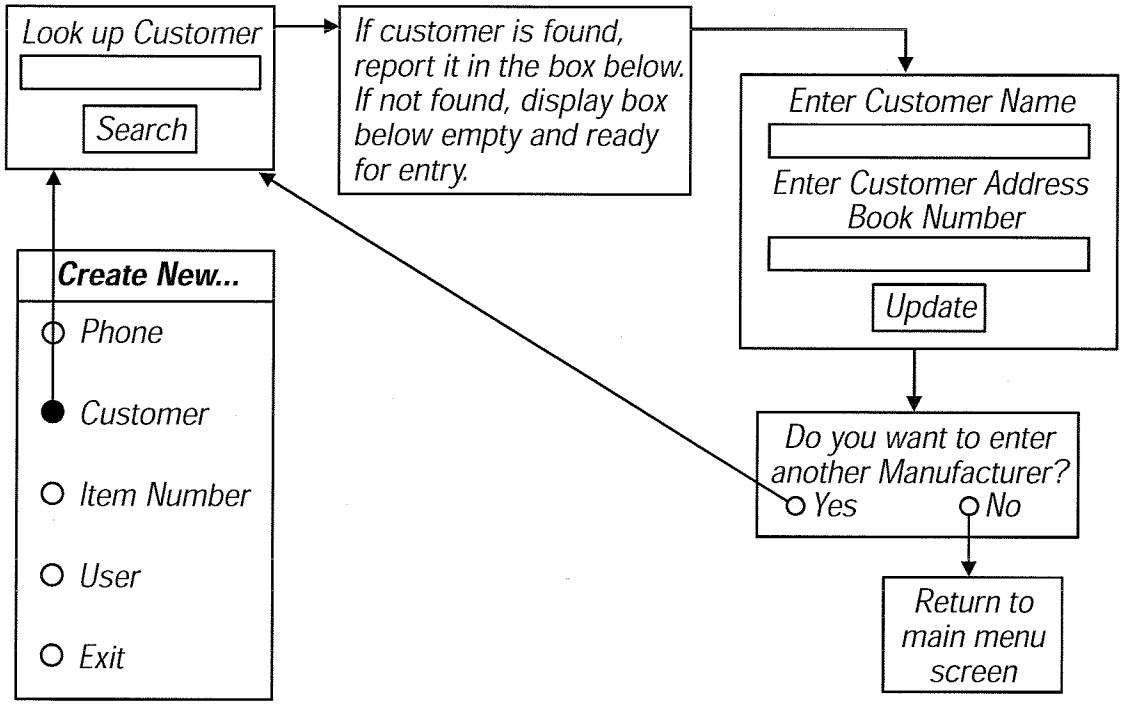


FIG. 10

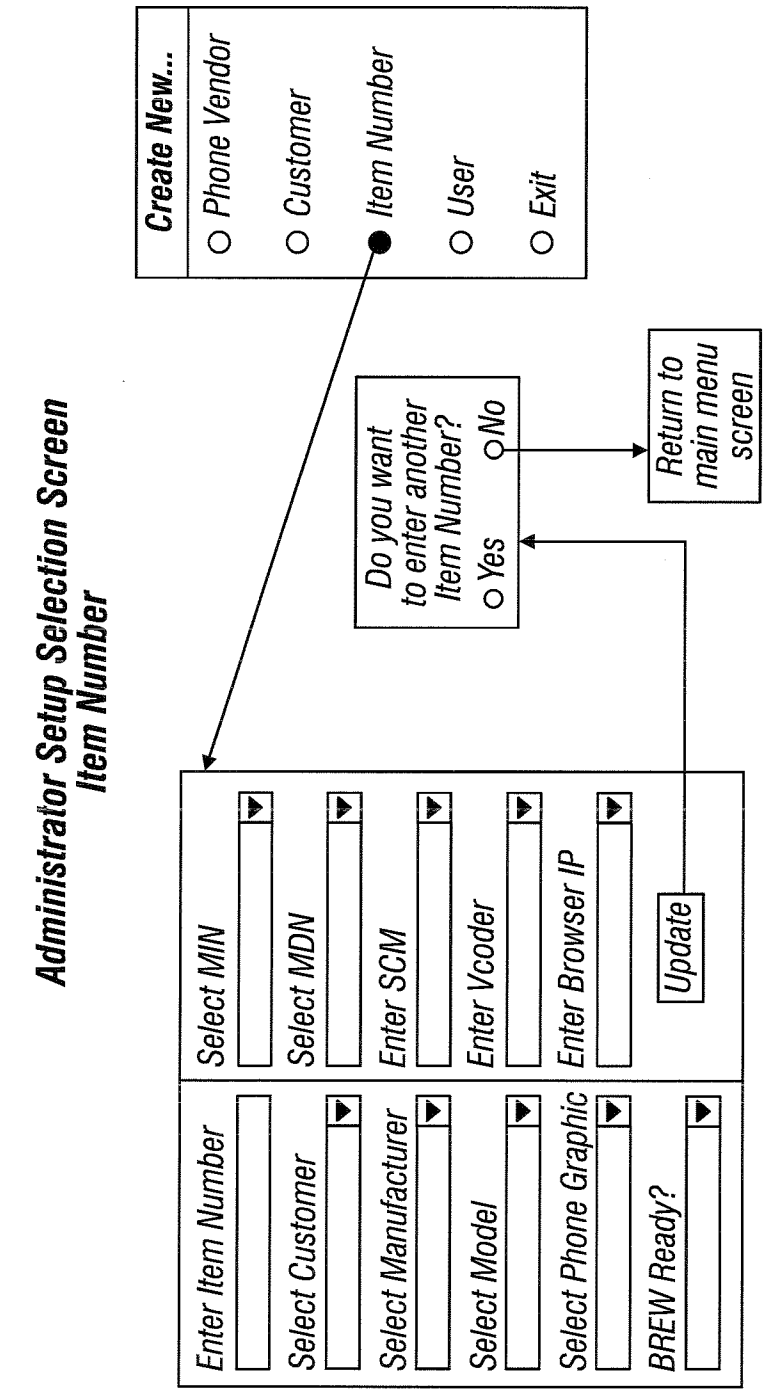

Administrator Setup Selection Screen
Item Number
Create New...
Phone Vendor
Customer
Item Number
User
Exit
Do you want to enter another Item Number?
Yes
No
Return to main menu screen
Enter Item Number
Select Customer
Select Manufacturer
Select Model
Select Phone Graphic
BREW Ready?
Select MIN
Select MDN
Enter SCM
Enter Vcoder
Enter Browser IP
Update

FIG. 11

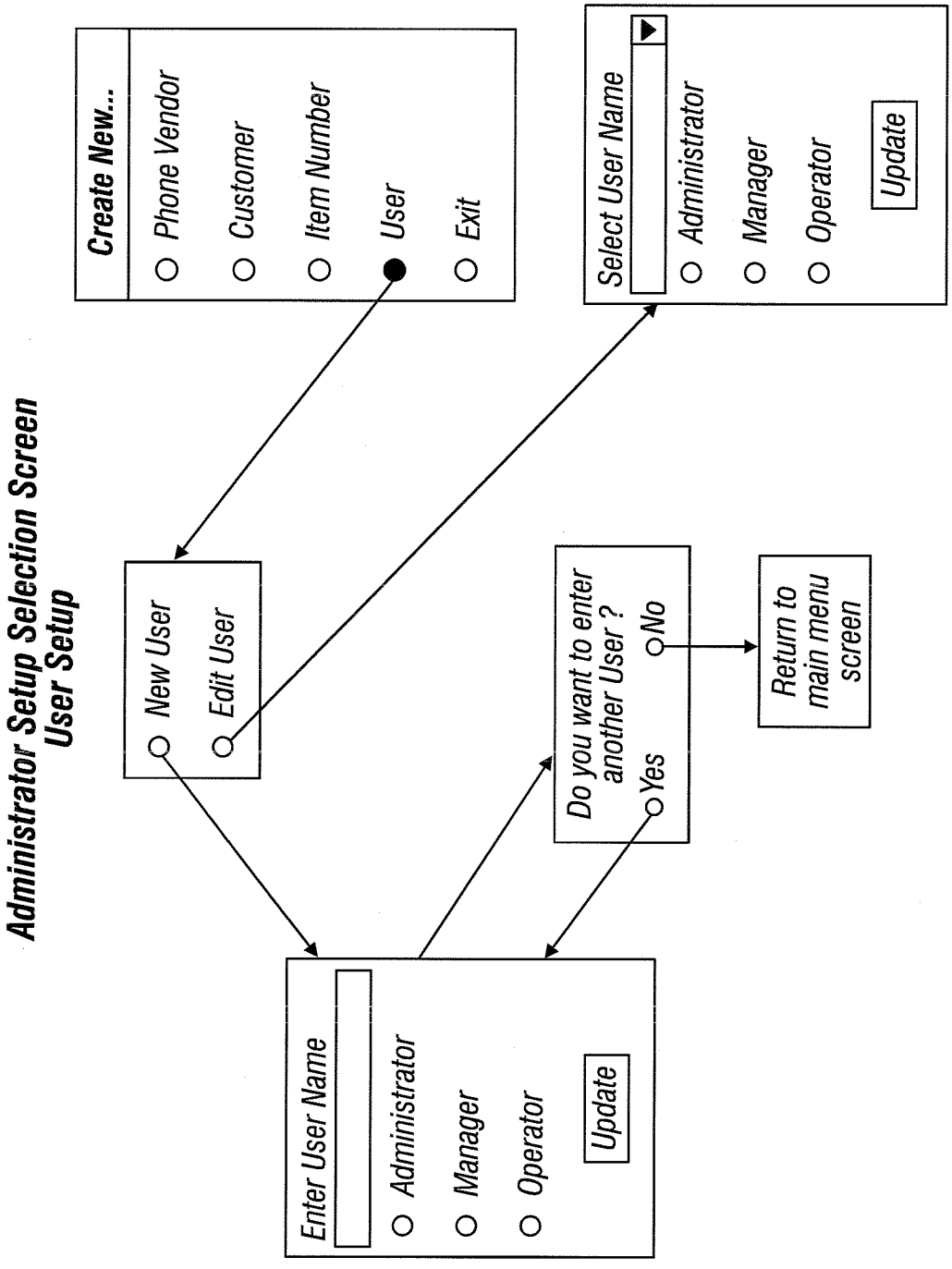
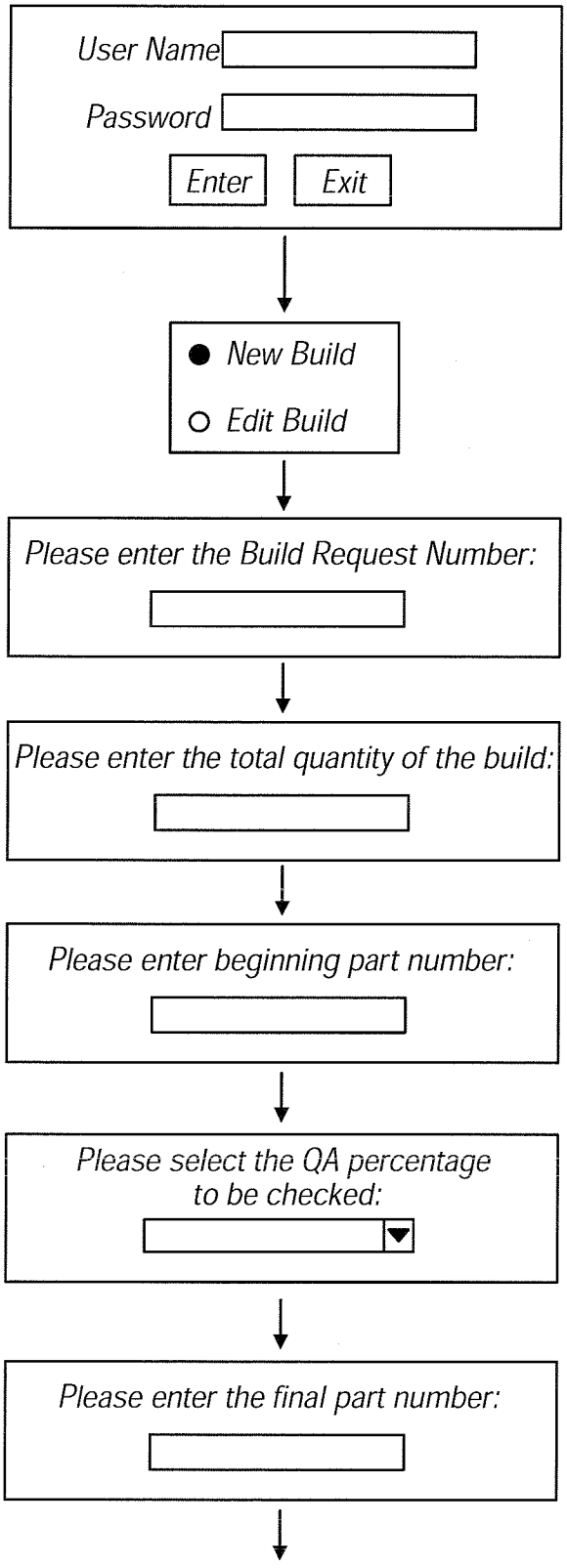

Administrator Setup Selection Screen
User Setup
Create New...
Phone Vendor
Customer
Item Number
User
Exit
New User
Edit User
Select User Name
Administrator
Manager
Operator
Update
Enter User Name
Administrator
Manager
Operator
Update
Do you want to enter another User ?
Yes
No
Return to main menu screen

FIG. 12

Manager Setup - New Build Request



Continuing from Fig. 6, a user logs in to the manager setup phase...

...and opts whether to create a new Build or to edit an existing Build...

...and having opted for a new Build, enters the Build Request Number...

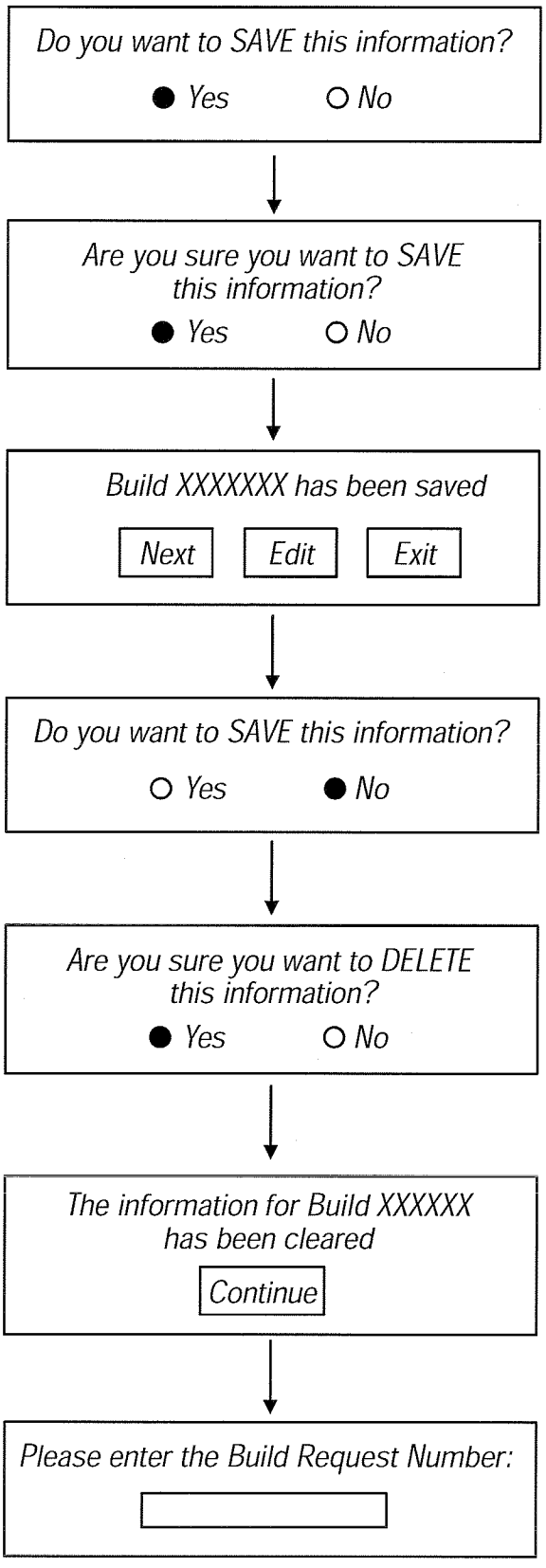
...and quantity of handsets in the order for provisioning...

...the starting part of the number of the inventory...

...and designates a target value for Quality Control verification by which to determine an order meets specifications. The choices of QC thresholds are: 10%, 20%, 25%, 50%, 75%, and 100% compliance.

...and enters the value of the final part number of the inventory...

FIG. 13A



...and to complete the setup, information may be saved ("yes") or deferred for changes ("no")...

...confirmation of the "save" order is requested.

Setup is confirmed, where "XXXXXXX" is the Build Request Number that was input at the beginning of the process, and the next step is requested.

Should the Manager choose to clear the information and start over, they would be at this screen...

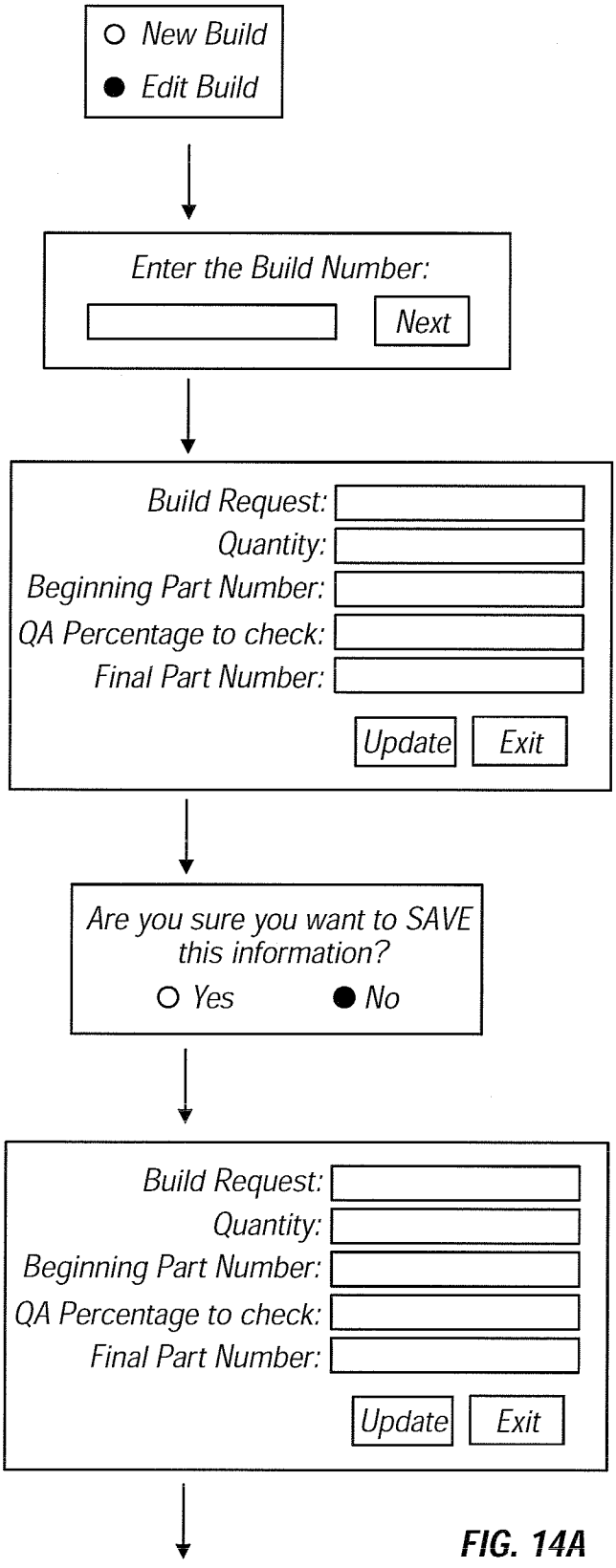
...and this screen follows for confirmation to restart data entry...

...concluding with this screen...

...before returning the Manager to the beginning screen.

FIG. 13B

Manager Setup - Edit Build Request



Alternatively, continuing from Fig. 17, the user opts to edit a Build Request...

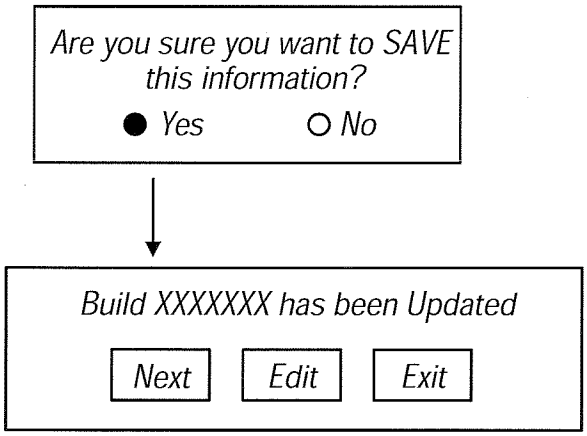
...the user enters an existing Build Request Number...

...and the as-filed Build Request parameters are listed for the user to change as needed...

...and confirmation is requested, in this case choosing not to save the edited data.

The Manager is returned to this screen with existing Build Request data to make changes...

FIG. 14A

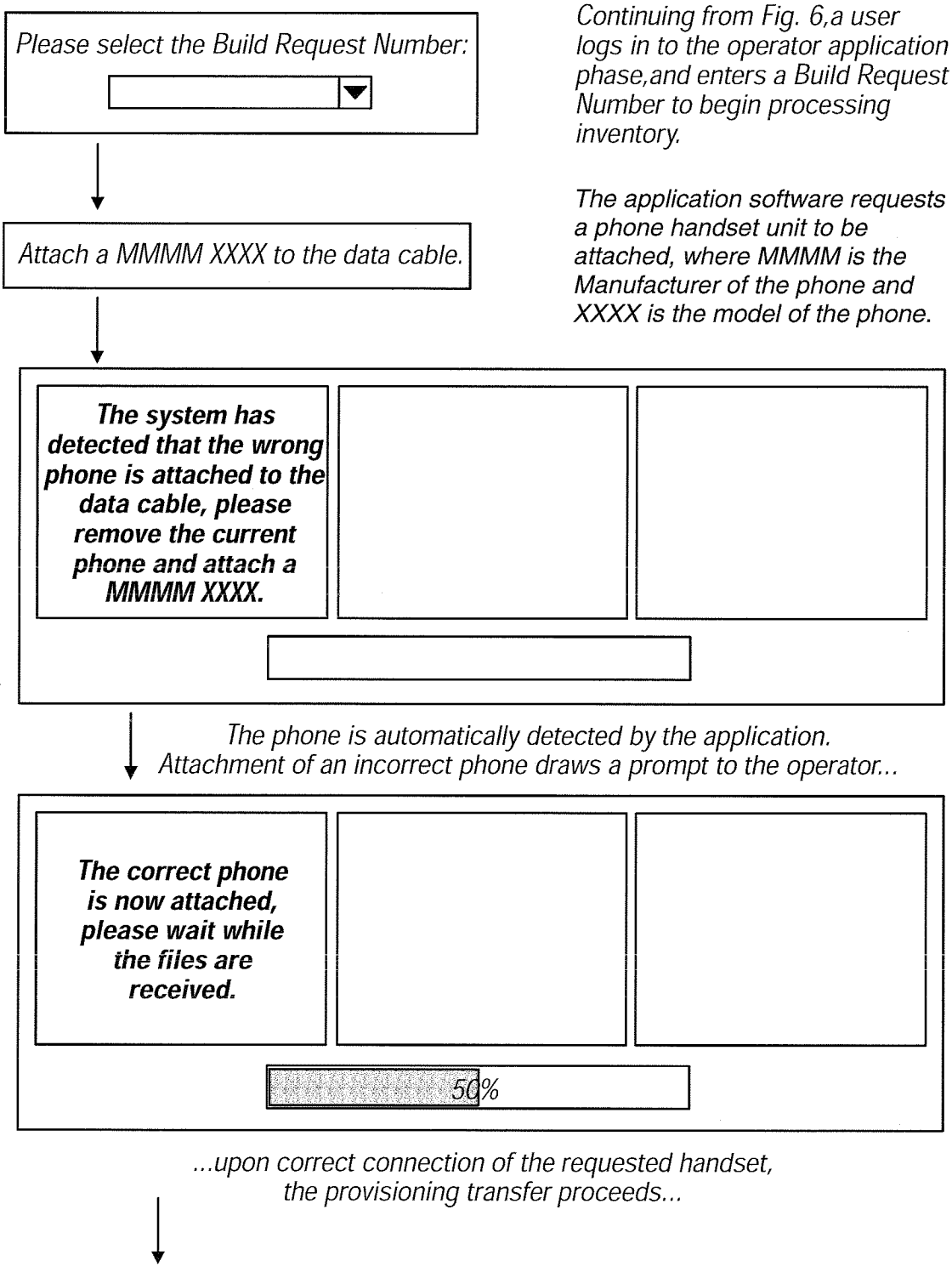


...again leading to the confirmation request...

...and the edit is completed, where "XXXXXX" is the Build Request Number that was input at the beginning of the process. The"'next" step is selected...

FIG.14B

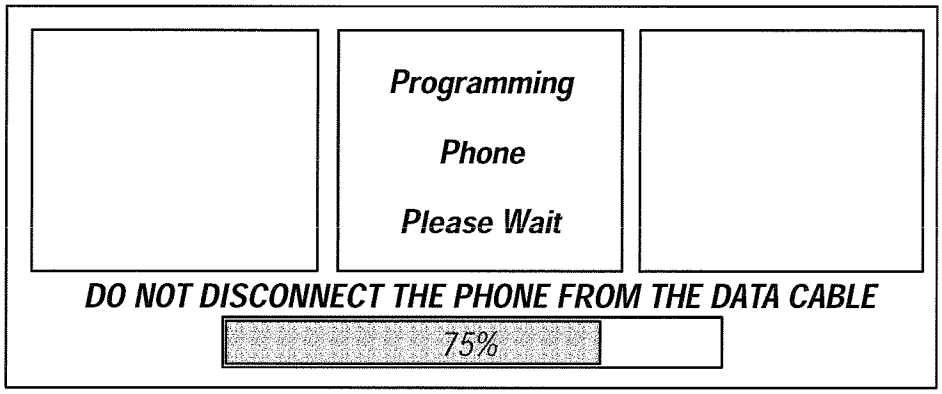
Operator Application - Production



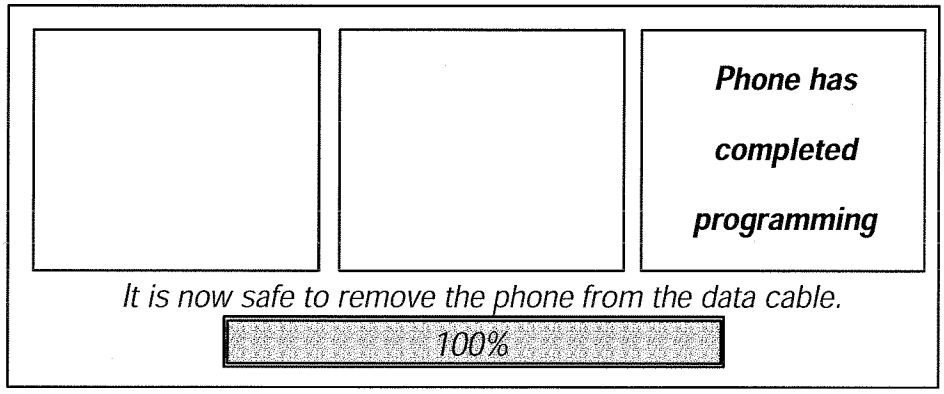
Continuing from Fig. 6,a user logs in to the operator application phase,and enters a Build Request Number to begin processing inventory.

The application software requests a phone handset unit to be attached, where MMMM is the Manufacturer of the phone and XXXX is the model of the phone.

FIG.15A



...and the process is graphically tracked for the operator...

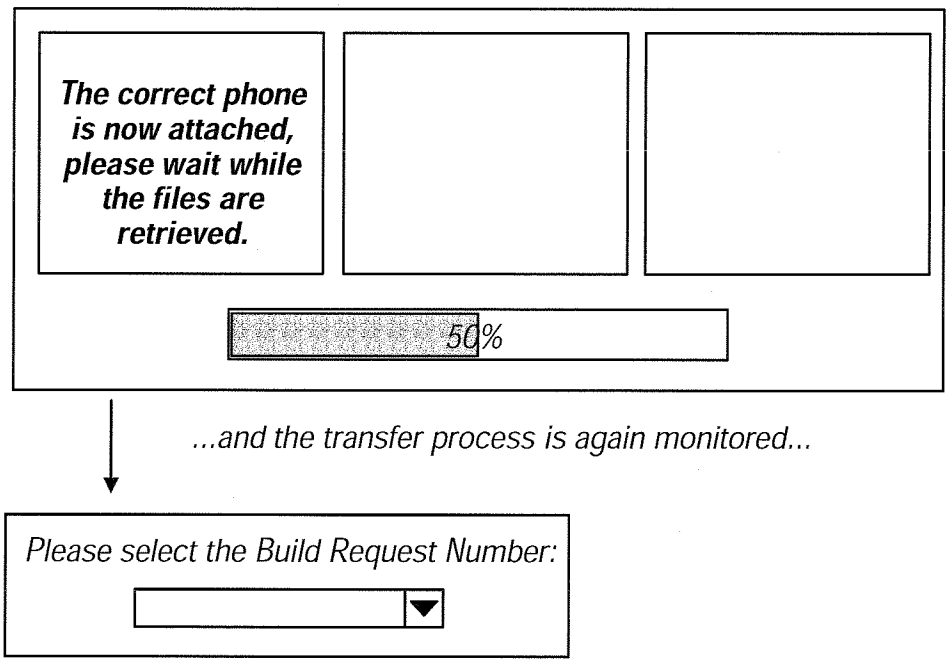


Completion of file transfer for provisioning is reported, and the attached handset is approved to be detached.

Attach a MMMM XXXX to the data cable.

A next handset is requested by a vendor and model ID...

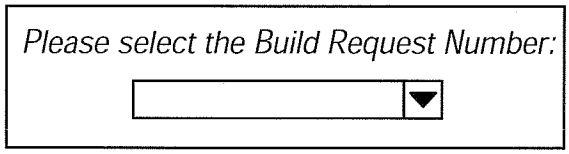
FIG.15B



The process will continue until all phones in a Build have been programmed. After the last phone in the Build has been programmed, this screen appears. The completed Build Request Number will no longer be on the drop down list.

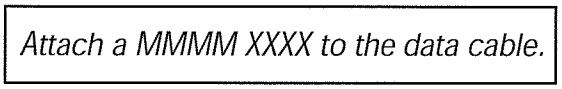
FIG. 15C

Operator Application -Quality Assurance

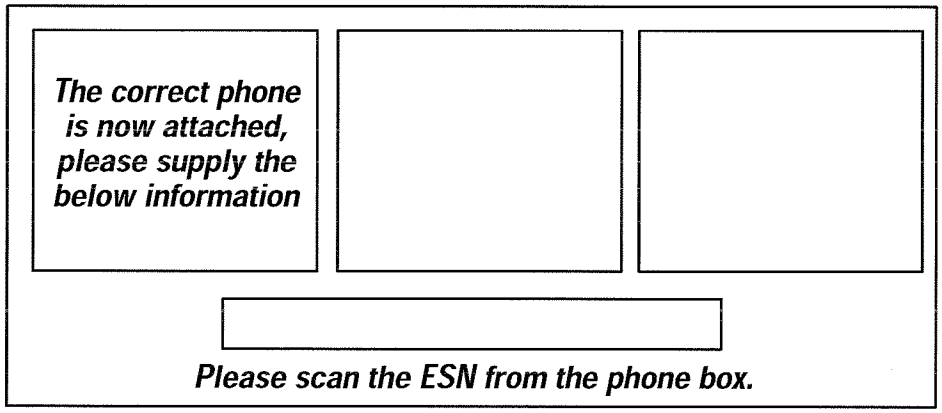


Continuing from Fig. 6, a user logs in to the operator application phase, and enters a Build Request Number to begin processing inventory.

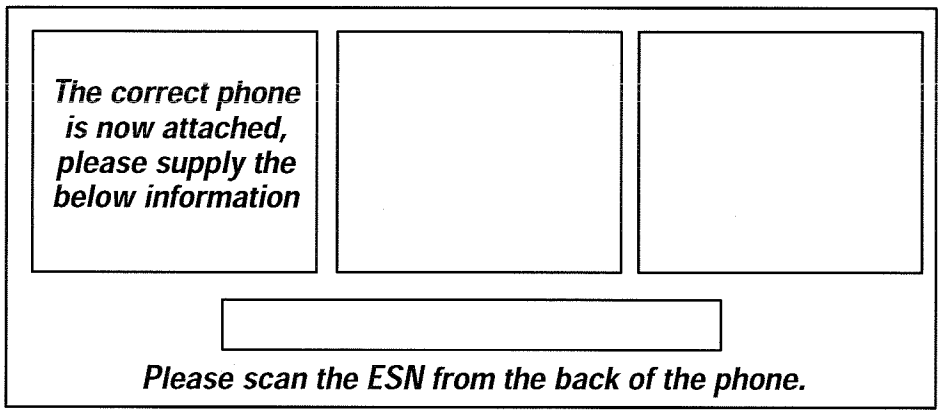
The operator is prompted to select a Build Request for QC checking...



...and to attach a handset unit for the QC evaluation.



The QC program requests a scan of the phone's packaging...



...and the handset itself to verify the electronic serial number.

FIG.16A

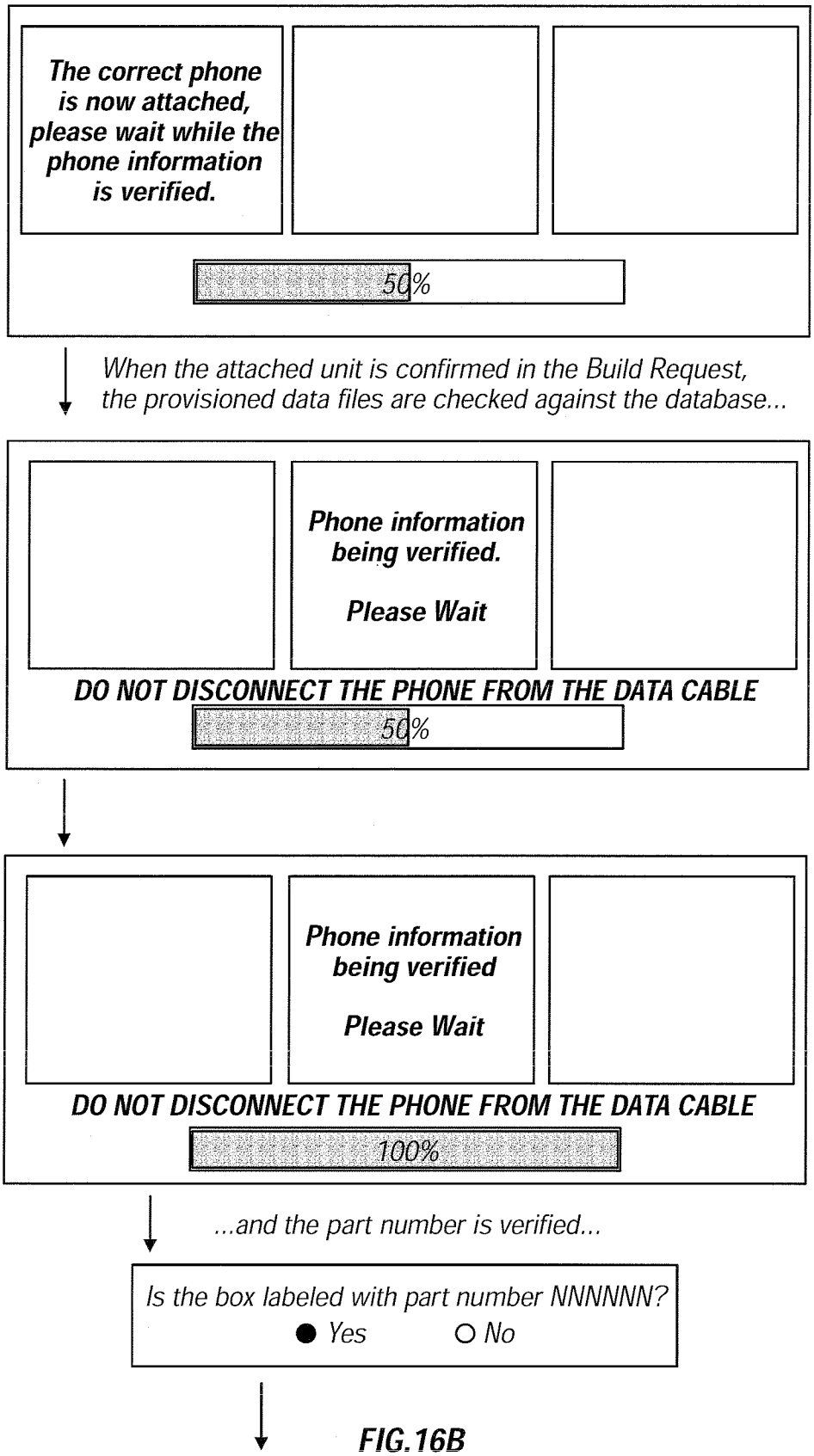
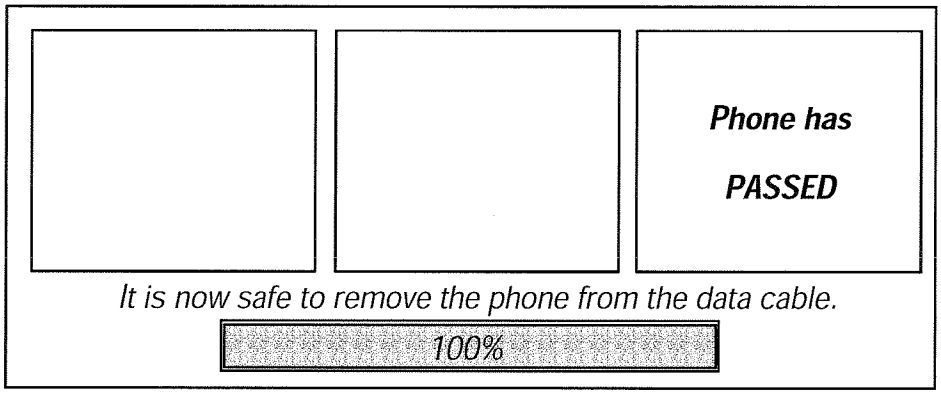

The correct phone is now attached, please wait while the phone information is verified.
50%
When the attached unit is confirmed in the Build Request, the provisioned data files are checked against the database...
Phone information being verified.
Please Wait
DO NOT DISCONNECT THE PHONE FROM THE DATA CABLE
50%
Phone information being verified
Please Wait
DO NOT DISCONNECT THE PHONE FROM THE DATA CABLE
100%
...and the part number is verified...
Is the box labeled with part number NNNNNN?
● Yes ○ No

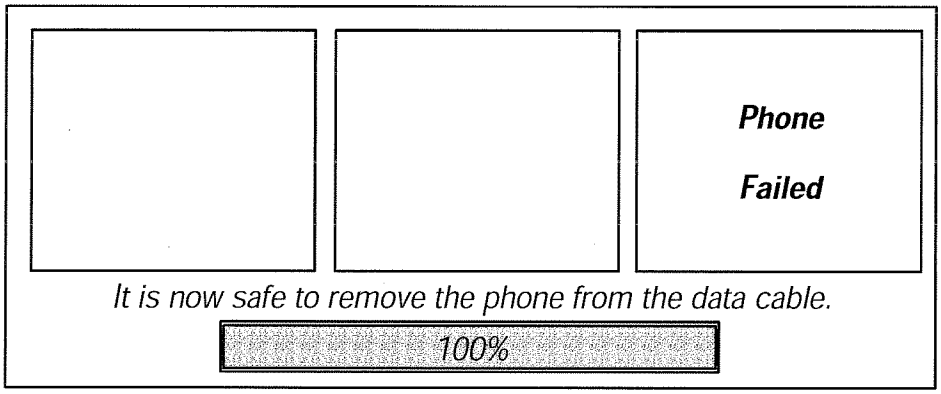
FIG.16B

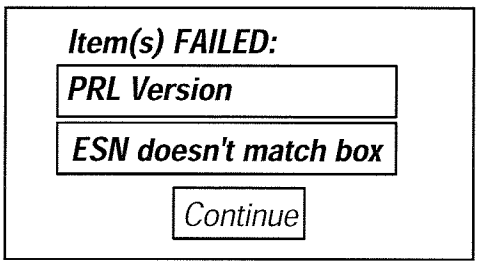


... and the operator is notified of status. If passed...

Attach a MMMM XXXX to the data cable.

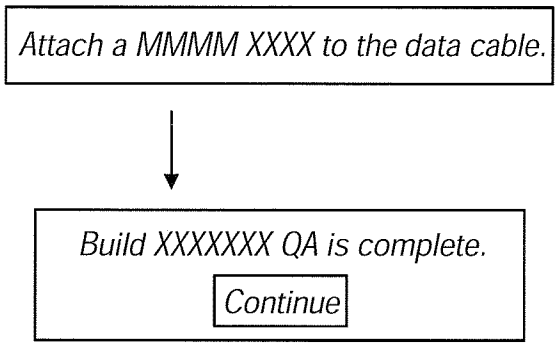
...the next handset is requested. Alternatively...





...in case a phone fails the QC test, this screen will appear, which notifies the operator that the attached phone is to be diverted to a noncompliance hold area.

FIG.16C



The next phone set for QC testing is requested, and the testing protocol continues as above, until...

When the final phone is checked, this screen will appear. The system will then go back to the beginning of the QA section for the selection of another Build Request Number.

FIG.16D